Title (en)

CONTROLLED-VOLUME INFUSION DEVICE

Title (de)

INFUSIONSVORRICHTUNG MIT VOLUMENSTEUERUNG

Title (fr)

DISPOSITIF DE PERFUSION AVEC REGULATION EN VOLUME

Publication

**EP 1812096 A2 20070801 (EN)**

Application

**EP 05824851 A 20051118**

Priority

- US 2005041950 W 20051118
- US 62979504 P 20041119

Abstract (en)

[origin: WO2006055834A2] An infusion device capable of administering liquid medication at a continuous flow rate, and upon user demand delivers a controlled volume dosage of liquid medication at a higher dosage flow rate. The dosage reservoir (200) remains empty until the user actuates it by selectively and temporarily removing the pressure source, such as a spring (230). During actuation, fluid rapidly flows from the medication reservoir (100) to fill the dosage reservoir (200). After actuation, the pressure source (230) exerts a higher pressure on the dosage reservoir (200) than the medication reservoir pressure (100), which results in a temporary higher bolus flow rate. Thus, two distinct flow rates are achieved with one flow restrictor element (700).

IPC 8 full level

**A61M 5/142** (2006.01)

CPC (source: EP KR US)

**A61M 5/1454** (2013.01 - EP US); **A61M 5/178** (2013.01 - KR); **A61M 5/315** (2013.01 - KR); A61M 5/14216 (2013.01 - EP US); A61M 5/14586 (2013.01 - EP US); A61M 5/16877 (2013.01 - EP US); A61M 5/31511 (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

**WO 2006055834 A2 20060526**; **WO 2006055834 A3 20071011**; **WO 2006055834 A8 20080228**; AU 2005306461 A1 20060526; AU 2005306461 B2 20110120; CA 2587525 A1 20060526; CA 2587525 C 20120221; CN 101124004 A 20080213; CN 101124004 B 20120418; EP 1812096 A2 20070801; EP 1812096 A4 20080604; IL 183145 A0 20070920; IL 183145 A 20101130; JP 2008520373 A 20080619; JP 4769253 B2 20110907; KR 101013538 B1 20110214; KR 20070089176 A 20070830; US 2006122562 A1 20060608; US 8372045 B2 20130212

DOCDB simple family (application)

**US 2005041950 W 20051118**; AU 2005306461 A 20051118; CA 2587525 A 20051118; CN 200580045493 A 20051118; EP 05824851 A 20051118; IL 18314507 A 20070513; JP 2007543306 A 20051118; KR 20077013873 A 20051118; US 28309105 A 20051118